

Duluth Area Carbon Reduction Program (CRP) FY 2027 Proposed Project

TAC – March 18, 2025

Mike Wenholtz



Update

February 2025 TAC Meeting

- Questions arose as to whether or not this project was eligible for CRP funds
- TAC decided to not move the project to the MIC Board
- TAC asked City of Duluth to meet with MnDOT and determine if the project is eligible for CRP funds

February 27

- MnDOT, City of Duluth, and MIC staff met to discuss the project
- MnDOT determined **the project is eligible for CRP funding**

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

Lead Agency or Jurisdiction: **City of Duluth**

Title: **Locking It In: Micro-mobility Parking in Duluth, MN**

Project Location: **Numerous locations around Duluth**

Purpose or Need:

There is a significant lack of parking for micro-mobility devices throughout the City of Duluth (2024 Zeitgeist Cycling Needs Assessment).

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

Plain Language Project Description:

The City of Duluth would be filling a key infrastructure component gap in the multimodal transportation network by adding convenient and reliably available micro-mobility parking within public right-of-ways.

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

Estimated Total Project Cost = **\$270,000**

Amount of CRP Funding Requested = **\$225,000**

Is the City able to accept partial funding? **Yes**

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

The calculated CO₂ emissions reduction in year 1 is **135.5 e MT per year**, for a calculated cumulative CO₂ emissions reduction of 1181.65 e MT.

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

MN CRS CE Tool MIC Evaluation 01.29.2025



PROJECT TYPE: T15 - REDUCE VEHICLE MILES TRAVELED

DIRECTIONS:

Enter project data needed within the "INPUTS" section below. Click the "Reset to Default" button to clear all user input.

The "CONSTANTS & INTERIM CALCULATIONS" section shows assumptions that cannot be changed or interim results that are calculated by the tool based on the project input data.

The "RESULTS" section shows the results of the carbon emissions calculations, both estimated emission reductions in year 1 and cumulative emission reductions over the duration of the project.

INPUTS		
Variables	Value	Unit
Year of project implementation	2027	-
Project lifetime	10	years
Annual reduction in light duty passenger vehicle miles traveled (total)	394000	miles/yr
Annual reduction in medium/heavy duty vehicle miles traveled (total)	0	miles/yr

CONSTANTS & INTERIM CALCULATIONS		
Variables	Value	Unit
Regional light-duty vehicle (LDV) fleet average GHG emission factor (Year 1)	343.91	g CO2e/mi
Regional light-duty vehicle (LDV) fleet average GHG emission factor (average of project lifetime)	299.91	g CO2e/mi
Regional medium/heavy duty fleet average GHG emission factor (Year 1)	1120.01	g CO2e/mi
Regional medium/heavy duty fleet average GHG emission factor (average of project lifetime)	1070.6	g CO2e/mi

RESULTS		
Variables	Value	Unit
Emissions reduction in year 1	135.5	CO2 e MT per year
Cumulative emissions reduction	1181.65	CO2 e MT

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

The calculated Cost Effectiveness (\$/MT) is \$228, which when compared with the “Cost Effectiveness Score” tab of the Minnesota_CRP_Scoring Tool_2024-38382402-v2” Excel Spreadsheet from MnDOT results in a **Cost Effectiveness Score of 20** (of a total possible of 20).

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

MN CRS Evaluation 01.29.2025

Strategy	Year 1 emissions reduction (CO2 e MT per year)	Cumulative emissions reduction (CO2 e MT)	Total Costs (\$) USER INPUT REQUIRED	Cost Effectiveness (\$/MT)	
E1	Expand public EV charging infrastructure network for light duty vehicles				
E2	Deploy charging infrastructure for medium- and heavy-duty freight vehicles				
E3	Purchase or lease battery electric transit buses				
E4	Purchase or lease battery electric school buses				
E5	Transition public fleet through purchase & lease of ZEVs				
E6	Initiate ZEV or EV sharing programs.				
T1	Construct or improve bicycle network				
T2	Construct or improve pedestrian network				
T3	Establish or expand micromobility programs				
T4	Improve street connectivity				
T5	Implement Bus Rapid Transit (BRT) systems with dedicated lanes and stations				
T6	Implement bus transit priority treatments				
T7	Add or expand bus service				
T8	Enhance bus frequency or hours of service				
T9	Establish or expand intercity bus services				
T10	Develop or improve intercity passenger rail services				
T11	Construct, expand, or enhance park and ride facilities				
T12	Construct roundabout to improve traffic flow				
T13	Construct left turn lane to improve traffic flow				
T14	Synchronize traffic signals to reduce delay time				
T15	Reduce vehicle miles traveled	135.50	1181.65	\$270,000	\$228.49
LC1	Use low carbon materials in road construction and maintenance				
LC2	Used recycled pavement on construction sites				
LC3	Replace street lighting and traffic control devices with LEDs				
RE1	Implement renewable energy projects in highway right-of-way				
RE2	Install solar panels on transit stations, rest stops, parking, and other facilities				
Total		135.50	1181.65	\$270,000	\$228

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

After evaluation of the application narrative:

Co-Benefit **Equity** Score = 2 (of a possible 5)

Co-Benefit **Safety** Score = 2.5 (of a possible 5)

Co-Benefit **Access** Score = 2.5 (of a possible 5)

Co-Benefit **Health** Score = 4 (of a possible 5)

Total Co-Benefit Score for this project = 11 (of a possible 20)

FY 2027 – Proposed Project: Micro-Mobility Parking in Duluth, MN

Cost Effectiveness Score = 20 (of a possible of 20)

+

Total Co-Benefit Score = 11 (of a possible 20)

Total Evaluation Score for this project is 31 (of a possible 40)

MOTION REQUESTED

Request the MIC Policy Board approve the City of Duluth's proposed FY 2027 *Micro-mobility Parking in Duluth* project requesting \$225,000 of Carbon Reduction Program (CRP) funding

Comments? Questions?



TAC
March 2024